

OM of: US-09-805-550-2 to: Issued\_Patents\_NA:\* out\_format : pfs  
Date: Aug 31, 2002 7:35 AM

About: Results were produced by the GenCore software, version 4.5,  
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## Command line parameters:

-MODEL=frame+g2n.model -DEV=x1h  
-O/cgn2\_1/USPOT/spool/US09805550/runat\_29082002.160819.289/app\_query.fasta\_1.897  
-DB=Issued\_Patents\_NA -OPMT=fastap -SUFFIX=oligop2n.rni  
-GAPOP=4.500 -GAPEXT=0.050 -MINMATCH=0.100 -LOOPEXT=0.000  
-IOOEXT=0.000 -QCAPOP=4.500 -QGAPEXT=0.050 -XGAPOP=60.000  
-XGAPEXT=60.000 -FEAPOP=6.000 -FEAPEXT=7.000 -YGAPEXT=60.000  
-MATRIX=oligo -TRANS=human40.cdi -LIST=45 -DOCALLIGN=200  
-THR\_SCORE=quality -THR\_MIN=1 -ALIGN=15 -MODE=LOCAL -OUTFMT=pfs  
-NORM=ext -HEA\_SIZE=500 -MINLEN=0 -MAXLEN=200000000  
-USER=US9805550.ecgn1\_1.58 -NCPU=6 -ICPU=3 -LONGLOC  
-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -NO\_XLPHY -WAIT -THREADS=1

## Search information block:

Query: US-09-805-550-2  
Query length: 405  
Database: Issued\_Patents\_NA:\*  
Database sequences: 383533  
Database length: 122816752  
Search time (sec): 69.340000

WARN: XGAPOP and YGAPOP must be equal. Assuming YGAPOP=XGAPOP=60.000  
WARN: XGAPEXT and YGAPEXT must be equal. Assuming YGAPEXT=XGAPEXT=60.000

## score\_list:

Sequence	Strd Orig	ZScore	EScore	Len	Documentation	
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-09-413-574-1 +				405.00	6757.54	0.0
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-09-413-574-3 +				13.00	192.11	0.0052
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-09-103-840A-1 -				9.00	68.43	3.9e+04
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-09-103-840A-1 -				8.00	119.74	55.57
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-823-999-10 -				8.00	114.86	102.88
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-791-347-16 -				8.00	114.86	103.99
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-869-696-6 +				8.00	113.28	127.93
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-869-696-20 +				8.00	111.90	151.92
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-492-027A-5 +				8.00	111.10	168.41
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-869-696-21 +				8.00	110.42	183.71
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-869-696-22 +				8.00	109.93	195.61
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-136-277-18 +				8.00	109.58	204.69
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-479-403-18 +				8.00	109.58	204.69
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-835-734-18 +				8.00	109.58	204.69
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-869-696-8 +				8.00	108.43	237.21
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-714-918-16 -				8.00	107.15	279.51
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-09-265-315-16 -				8.00	107.15	279.51
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-09-265-315-16 -				8.00	107.15	279.51
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-09-266-417-16 -				8.00	107.15	279.51
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-136-277-1 +				8.00	104.91	372.17
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-479-403-1 +				8.00	104.91	372.17
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-835-734-1 +				8.00	104.91	372.17
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-808-982-1 +				8.00	104.25	405.10
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-09-306-902A-1 +				8.00	104.25	405.10
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-693-174-5 +				8.00	103.92	422.85
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-09-253-738-5 +				8.00	103.92	422.85
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-446-038B-2 +				8.00	103.19	464.57
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-446-038B-2 +				8.00	103.19	464.57
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-805-445-2 +				8.00	103.19	464.57
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-064-067D-2 +				8.00	103.19	464.57
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-09-066-208-2 +				8.00	103.19	464.57
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-980-080-3 +				8.00	103.19	464.57
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-026-138E-16 +				8.00	102.27	522.58
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-678-614-1 +				8.00	101.78	556.47
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-231-193A-57 +				8.00	101.06	610.44
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-486-273A-57 +				8.00	101.06	610.44
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-940-086A-57 +				8.00	101.06	610.44
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-940-035A-57 +				8.00	101.06	610.44

/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-869-696-1 +	8.00	99.88	710.12	5529
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-850-880-11 +	8.00	90.90	2.2e+03	19182
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-944-916-11 +	8.00	90.90	2.2e+03	19182
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-846-111D-15 +	8.00	85.54	4.5e+03	4035
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-09-103-840A-1 +	8.00	51.68	2.8e+05	44115
/cgn2_6/prodata/1/lna/6B.COMB.seq:US-08-751-767A-15 -	7.00	113.96	116.68	77
/cgn2_6/prodata/1/lna/6A.COMB.seq:US-08-030-731A-36 -	7.00	113.16	129.25	86

seq\_name: /cgn2\_6/prodata/1/lna/6B.COMB.seq:US-09-413-574-1

## seq\_documentation block:

Sequence 1, Application US/09413574  
Patent No. 6235972  
GENERAL INFORMATION:  
APPLICANT: Mahajan, Pramod B.  
APPLICANT: Tagliani, Laura  
TITLE OF INVENTION: Maize Rad3 Genes and Uses Thereof  
FILE REFERENCE: 0964  
CURRENT APPLICATION NUMBER: US/09/413,574  
EARLIER FILING DATE: 1999-10-06  
EARLIER APPLICATION NUMBER: 60/109,728  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 1  
LENGTH: 1522  
TYPE: DNA  
ORGANISM: Zea mays  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (58)...(1272)  
US-09-413-574-1

## alignment\_scores:

Quality	405.00	Length:	405
Ratio:	1.000	Gaps:	0
Percent Similarity:	100.000	Percent Identity:	100.000

## Alignment block:

US-09-805-550-2 x US-09-413-574-1 ..  
Align seg 1/1 to: US-09-413-574-1 from: 1 to: 1522

1	MetylsLeuAsnVallyThrLeuLysGlyThrsAnpHeuLleGluAl	17
58	ATGAAGCTTACGTCATACACCTTCAAGGACCAACTTCGATCGAGGC	107
17	AserProAspAlaSerValAlaAspValLysArgTlellegluThrThrg	34
108	GAGCCCGATGATCGGTGCTGATGTGAGAGATCATTTGAGACACTC	157
34	InglYlnSerThrTyrrArgAlaAspGlnImeLleuLleTyGlnGly	50
158	AAGGTCAGATGACTTACCGGGCGGACCAAGTCTCATTTACCAAGG	207
51	LysIleLeuLysAspGluThrThrLeuLysSerAnGlyValAlaGluAs	67
208	AAATTCACAGATGAGAACCACTTTGGAAGCAAGAGTTCGTGAGAA	257
67	nSerPheLeuValIleMeLleuSerLysAlaLysAlaSerSerGlyA	84
258	CAGCTTCCTGTTATATGTGTCCAAAGCTTACGATCATCGAGTGAG	307
84	laserThrAlaThrThrAlaLysAlaProAlaThrLeuAlaGlnProAla	100
308	CTTACCGGCTACTACGCAAAAGCTCCTGCAACTGCGCCCAACTGCT	357
101	AlaProValAlaProAlaAlaSerValAlaAlaArgThrProThrGlnAlaPr	117
358	GCCCTGTGGGCGCTGCTGATCATGTTGCAAGAACCAACAGAGGCTCC	407
117	OvalAlaThrAlaGluThrAlaProProSerValGlnProGlnAlaAlaPr	134

```

|||||
408 TGTGTGCGACAGCTGGAACGGCACCTCCAAAGTGCCAACTCAGGCGTGC 457
134 roAlaAlaThrValAlaAlaThrAspAspAlaAspValTyrSerGlnAla 150
458 CAGCTGCTCAAGCGGTGCTGCTACTGATGATGATGCTGATGCTGATGCTG 507
151 AlaSerAsnLeuValPheGlyAsnAsnLeuGluGlnThrTleGlnGlnTl 167
508 GCTTCAAACTGATATTGGAACAATCTAGAAACACACTATCCAAACAAT 557
167 eleuAspMetGlyGlyTyrThrTProGluArgAspThrValValArgAla 184
558 TCTTGACATGGGTGGGTGATGGAACGTGATGCTGTTGTTGCTGCTC 607
184 euArgAlaAlaTyrAsnAsnProGluArgAlaIleAspTyrLeuTyrSer 200
608 TACGTGCTGCATACAAATACCCGAGAGAGCTATACACTACCTGATTTCT 657
201 GlyLeuProGluAsnValGluAlaGlnProValAlaArgAlaProAlaAl 217
658 GGAATTCCTGAGAAATGTGGAGGCTCAGCTGTTGCCGAGACCTGCTGC 707
217 aglyGlnGlnThrAsnGlnGlnAlaAlaSerProAlaGlnProAlaVala 234
708 TGGCCACACAAACAATCAGACAGCGCATCACCCTCAGCCAGCAGCTGTG 757
234 IalauProValGlnProSerProAlaSerAlaGlyProAsnAlaAsnPro 250
758 CATTGGCAGTGCAGGCATCAGCTGCTGAGGGCTTATGCAATTCCT 807
251 LeuAsnLeuPheProGlnGlyValProSerGlyGlySerAsnProGlyVa 267
808 TTGAACCTTTTCTCAGGGTGTTCCAAGTGTGGGTGCCAACCCAGTGT 857
267 IValProGlyAlaGlySerGlyAlaLeuAspAlaLeuArgGlnLeuProG 284
858 TGTTCAGAGTGCAGGATCTGTGCTCTTGTATGCTTGCACAGCTTCCAC 907
284 IAlPheGlnAlaLeuLeuGlnLeuValGlnAlaAsnProGlnIleLeuGln 300
908 AGTTTCAACACTCCTTTCAGTTAGTCCAGAGCTATCTCAATCTTGAG 957
301 PrometleuGlnGlnLeuGlnGlyGlnAsnProGlnIleLeuArgLeu 317
958 CCAATGCTTCAAGAGCTAGTAAACCAACCAATCTGCGGTGTGAT 1007
317 eGlnGluAsnGlnAlaGluPheLeuArgLeuValAsnGluSerProGluG 334
1008 TCAAGAAATCAAGCTGAGTTCCTCCGCTTGGTGAATGAATCTCTGAGG 1057
334 IyGlyProGlyGlyAsnIleLeuGlyGlnLeuAlaAlaValProGln 350
1058 GTGGTCTCTGAGGAGAACATACTAGTCACTGACAGCTGCTGAGCAAA 1107
351 ThrLeuThrValThrProGluGluArgGluAlaIleGlnArgLeuGlu 367
1108 ACGGTGACAGTTAACCCAGAGAAACGGAGGCTATCCACGGGCTCAGAG 1157
367 yMetGlyPheAsnArgGluLeuValLeuGlnValPhePheAlaCysAsn 384
1158 AATGGGGTTCAACCGTGAAGCTTGTGCTAGAAAGTTTCTTTCGCAAGCA 1207
384 yAspGlnGluLeuThrAlaAsnTyrLeuLeuAspHisGlyHisGluPhe 400
1208 AGGAGCAAGAGCTTACAGCCCACTACCTCTGATCATGGCCATGTGATTT 1257
401 AspAspGlnGlnGln 405
1258 GAGATCAGCAGCA 1272
seq_name: /cgn2_6/ptodata/1/lna/6B_COMB.seq:US-09-413-574-3

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seq_documentation_block:
; Sequence 3, Application US/09413574
; Patent No. 6235972
; GENERAL INFORMATION:
; APPLICANT: Mahajan, Pramod B.
; APPLICANT: Taghianli, Laura
; TITLE OF INVENTION: Maize Rad23 Genes and Uses Thereof
; FILE REFERENCE: 0964
; CURRENT APPLICATION NUMBER: US/09/413,574
; CURRENT FILING DATE: 1999-10-06
; EARLIER APPLICATION NUMBER: 60/109,728
; EARLIER FILING DATE: 1998-11-23
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1702
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (106)...(1209)
US-09-413-574-3

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alignment_scores:
Quality: 13.00 Length: 13
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

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alignment_block:
US-09-805-550-2 x US-09-413-574-3 ..

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Align seg 1/1 to: US-09-413-574-3 from: 1 to: 1702

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182 ArgAlaLeuArgAlaAlaTyrAsnAsnProGluArgAla 194
604 AGGGCTCTCCGGTCCCTTACACAAACCCGAGAGCTGCT 642

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seq_name: /cgn2_6/ptodata/1/lna/6B_COMB.seq:US-09-103-840A-1

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seq_documentation_block:
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

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alignment_scores:
Quality: 10.00 Length: 10
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

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alignment_block:
US-09-805-550-2 x US-09-103-840A-1/rev ..

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Align seg 1/1 to reverse of: US-09-103-840A-1 from: 1 to: 4411529

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99 ProAlaAProValAlaProAlaAAlaSer 108
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336823 CCGGCGGCACCGGTGGCTCCAGCGGCATCG 336794

seq_name: /cgn2_6/ptodata/1/ina/backfiles1.seq:5242821-11

seq_documentation_block:
; Patent No. 5242821
; APPLICANT: PALVA, LIKKA, SIBAKHOV, MERVIT
; TITLE OF INVENTION: LACTOCOCCUS PROMOTER AND SIGNAL
; SEQUENCES FOR EXPRESSION IN BACTERIA
; NUMBER OF SEQUENCES: 27
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/377,450
; FILING DATE: 10-JUL-1989
; SEQ ID NO:11
; LENGTH: 352
5242821-11

alignment_scores:
Quality: 8.00 Length: 8
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-805-550-2 x 5242821-11 ..
Align seg 1/1 to: 5242821-11 from: 1 to: 352

75 SerLysAlaLysAlaSerSerSer 82
|||||
214 AGTAAAGCCAAAGCCAGTTCATCT 237

seq_name: /cgn2_6/ptodata/1/ina/5B_COMB.seq:US-08-822-999-10

seq_documentation_block:
; Sequence 10, Application US/08822999
; Patent No. 6271026
; GENERAL INFORMATION:
; APPLICANT: Stone, Edwin M.
; APPLICANT: Sheffield, Val C.
; APPLICANT: Alward, Wallace L.M.
; TITLE OF INVENTION: GLAUCOMA COMPOSITIONS AND THERAPEUTIC
; TITLE OF INVENTION: AND DIAGNOSTIC USES THEREFOR
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY, HOAG & ELIOT LLP
; STREET: One Post Office Square
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-2170
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/822,999
; FILING DATE: 21-MAR-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/791,347
; FILING DATE: 30-JAN-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/748,479
; FILING DATE: 08-NOV-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/234,218
; FILING DATE: 28-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Arnold, Beth E.

REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIA-010.27
TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-832-1000
; TELEFAX: 617-832-7000
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 685 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-822-999-10

alignment_scores:
Quality: 8.00 Length: 8
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-805-550-2 x US-08-822-999-10/rev ..
Align seg 1/1 to reverse of: US-08-822-999-10 from: 1 to: 685

236 ProValGlnProSerProAlaSer 243
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265 CCTGTGACAGCCAGCCAGCCTCC 242

seq_name: /cgn2_6/ptodata/1/ina/5B_COMB.seq:US-08-791-347-16

seq_documentation_block:
; Sequence 16, Application US/08791347
; Patent No. 5885776
; GENERAL INFORMATION:
; APPLICANT: Stone, Edwin M.
; APPLICANT: Sheffield, Val C.
; APPLICANT: Alward, Wallace L.M.
; TITLE OF INVENTION: GLAUCOMA COMPOSITIONS AND THERAPEUTIC
; TITLE OF INVENTION: AND DIAGNOSTIC USES THEREFOR
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY, HOAG & ELIOT LLP
; STREET: One Post Office Square
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-2170
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/791,347
; FILING DATE: 30-JAN-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Arnold, Beth E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIA-010.26
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-832-1000
; TELEFAX: 617-832-7000
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 693 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-791-347-16
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alignment\_scores:  
Quality: 8.00 Length: 8  
Ratio: 1.000 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

## alignment\_block:

US-09-805-550-2 x US-08-791-347-16/rev ..

Align seg 1/1 to reverse of: US-08-791-347-16 from: 1 to: 693

236 ProvaIGlnProserProAlaser 243  
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265 CCTGTCTCAGCCACGCCCTCTCC 242

seq\_name: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:US-08-869-696-6

## seq\_documentation\_block:

Sequence 6, Application US/08869696C

Patent No. 6031155

GENERAL INFORMATION:

APPLICANT: Cameron-Mills, Verena

APPLICANT: Lok, Flinn

APPLICANT: Sinjorgo, Catharina Maria Cornelia

APPLICANT: Van Den Dool, Ronald Tako Marinus

APPLICANT: Caspers, Martinus Petrus Maria

APPLICANT: Van Zeijl-Van Der Valk, Maria Joanna

TITLE OF INVENTION: ARABINOXYLAN DEGRADATION

FILE REFERENCE: 11225.01US01

CURRENT APPLICATION NUMBER: US/08/869,696C

CURRENT FILING DATE: 1997-06-05

NUMBER OF SEQ ID NOS: 22

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 6

LENGTH: 867

TYPE: DNA

ORGANISM: barley

US-08-869-696-6

## alignment\_scores:

Quality: 8.00 Length: 8  
Ratio: 1.000 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

## alignment\_block:

US-09-805-550-2 x US-08-869-696-6 ..

Align seg 1/1 to: US-08-869-696-6 from: 1 to: 867

80 SerSerSerGlyAlaserThrala 87  
|||||  
534 TCAGTTCAGGGGCTCTACGCCA 557

seq\_name: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:US-08-869-696-20

## seq\_documentation\_block:

Sequence 20, Application US/08869696C

Patent No. 6031155

GENERAL INFORMATION:

APPLICANT: Cameron-Mills, Verena

APPLICANT: Lok, Flinn

APPLICANT: Sinjorgo, Catharina Maria Cornelia

APPLICANT: Van Den Dool, Ronald Tako Marinus

APPLICANT: Caspers, Martinus Petrus Maria

APPLICANT: Van Zeijl-Van Der Valk, Maria Joanna

TITLE OF INVENTION: ARABINOXYLAN DEGRADATION

FILE REFERENCE: 11225.01US01

CURRENT APPLICATION NUMBER: US/08/869,696C

CURRENT FILING DATE: 1997-06-05

NUMBER OF SEQ ID NOS: 22

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 20

LENGTH: 1044  
TYPE: DNA  
ORGANISM: barley  
US-08-869-696-20

## alignment\_scores:

Quality: 8.00 Length: 8  
Ratio: 1.000 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

## alignment\_block:

US-09-805-550-2 x US-08-869-696-20 ..

Align seg 1/1 to: US-08-869-696-20 from: 1 to: 1044

80 SerSerSerGlyAlaserThrala 87  
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917 TCAGTTCAGGGGCTCTACGCCA 940

seq\_name: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:US-08-492-027A-5

## seq\_documentation\_block:

Sequence 5, Application US/08492027A

Patent No. 5912333

GENERAL INFORMATION:

APPLICANT: Suzuki, Sholchi

APPLICANT: Burnell, James N

TITLE OF INVENTION: DNA Encoding Carbonic Anhydrase

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESSER: Birch, Stewart, Kolasch and Birch

STREET: P.O. Box 747

CITY: Falls Church

STATE: VA

COUNTRY: USA

ZIP: 22040-0747

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/492,027A

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Murphy Jr, Gerald M

REGISTRATION NUMBER: 28,977

REFERENCE/DOCKET NUMBER: 0760-206

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 205-8000

TELEFAX: (703) 205-8050

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 1167 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA to mRNA

FEATURE:

NAME/KEY: CDS

LOCATION: 36..851

US-08-492-027A-5

## alignment\_scores:

Quality: 8.00 Length: 8  
Ratio: 1.000 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

## alignment\_block:

US-09-805-550-2 x US-08-492-027A-5 ..

Align seg 1/1 to: US-08-492-027A-5 from: 1 to: 1167

100 AAlaIaProVaIaIaProAlaIa 107  
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222 GCGGCCCCGCTGCGCCCGCGCGC 245

seq\_name: /cgn2\_6/ptodata/1/lna/5A\_COMB.seq:US-08-869-696-21

seq\_documentation\_block:

; Sequence 21, Application US/08869696C  
; Patent No. 6031155  
; GENERAL INFORMATION:  
; APPLICANT: Cameron-Mills, Verena  
; APPLICANT: Lok, Finn  
; APPLICANT: Sinjorgo, Catharina Maria Cornelia  
; APPLICANT: Van Den Dool, Ronald Tako Marinus  
; APPLICANT: Caspers, Martinus Petrus Maria  
; APPLICANT: Van Zeijl-Van Der Valk, Maria Joanna  
; TITLE OF INVENTION: ARABINOXYLAN DEGRADATION  
; FILE REFERENCE: 11225.01US01  
; CURRENT APPLICATION NUMBER: US/08/869,696C  
; CURRENT FILING DATE: 1997-06-05  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 21  
; LENGTH: 1282  
; TYPE: DNA  
; ORGANISM: barley  
US-08-869-696-21

alignment\_scores:

Quality: 8.00 Length: 8  
Ratio: 1.000 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:

US-09-805-550-2 x US-08-869-696-21 ..  
Align seg 1/1 to: US-08-869-696-21 from: 1 to: 1282

80 SerSerSergIyAlaSerThrAla 87  
|||||  
1155 TCAAGTTCAGGGGCTCTACGCGCA 1178

seq\_name: /cgn2\_6/ptodata/1/lna/5A\_COMB.seq:US-08-869-696-22

seq\_documentation\_block:

; Sequence 22, Application US/08869696C  
; Patent No. 6031155  
; GENERAL INFORMATION:  
; APPLICANT: Cameron-Mills, Verena  
; APPLICANT: Lok, Finn  
; APPLICANT: Sinjorgo, Catharina Maria Cornelia  
; APPLICANT: Van Den Dool, Ronald Tako Marinus  
; APPLICANT: Caspers, Martinus Petrus Maria  
; APPLICANT: Van Zeijl-Van Der Valk, Maria Joanna  
; TITLE OF INVENTION: ARABINOXYLAN DEGRADATION  
; FILE REFERENCE: 11225.01US01  
; CURRENT APPLICATION NUMBER: US/08/869,696C  
; CURRENT FILING DATE: 1997-06-05  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 1372  
; TYPE: DNA  
; ORGANISM: barley  
US-08-869-696-22

alignment\_scores:

Quality: 8.00 Length: 8

Ratio: 1.000 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:

US-09-805-550-2 x US-08-869-696-22 ..

Align seg 1/1 to: US-08-869-696-22 from: 1 to: 1372

80 SerSerSergIyAlaSerThrAla 87  
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1245 TCAAGTTCAGGGGCTCTACGCGCA 1268

seq\_name: /cgn2\_6/ptodata/1/lna/5A\_COMB.seq:US-08-136-277-18

seq\_documentation\_block:

; Sequence 18, Application US/08136277  
; Patent No. 5644045  
; GENERAL INFORMATION:  
; APPLICANT: MANDEL, Jean-Louis  
; APPLICANT: AUBOURG, Patrick  
; APPLICANT: MOSSE, Jean  
; APPLICANT: SARDE, Claude  
; TITLE OF INVENTION: X-LINKED ADRENOLEUKODYSTROPHY GENE AND  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Young & Thompson  
; STREET: 745 South 23rd Street  
; CITY: Arlington  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/136,277  
; FILING DATE: 15-OCT-1993  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: PATCH, Andrew J.  
; REGISTRATION NUMBER: 32,925  
; REFERENCE/DOCKET NUMBER: B2272  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 703-521-2297  
; TELEFAX: 703-685-0573  
; TELEX: 248425 EMBON  
; INFORMATION FOR SEQ ID NO: 18:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1441 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-136-277-18

alignment\_scores:

Quality: 8.00 Length: 8  
Ratio: 1.000 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:

US-09-805-550-2 x US-08-136-277-18 ..

Align seg 1/1 to: US-08-136-277-18 from: 1 to: 1441

100 AAlaIaProVaIaIaProAlaIa 107  
|||||  
610 GCGGCTCTGCTGCTCTGCGGCT 633

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seq_name: /cgn2_6/ptodata/1/ina/5B_COMB.seq:US-08-479-403-18
seq_documentation_block:
; Sequence 18, Application US/08479403
; Patent No. 5869039
; GENERAL INFORMATION:
; APPLICANT: MANDEL, Jean-Louis
; APPLICANT: AUBOURG, Patrick
; APPLICANT: MOSSER, Jean
; APPLICANT: SARDE, Claude
; TITLE OF INVENTION: X-LINKED ADRENOLEUKODYSTROPHY GENE AND
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Young & Thompson
; STREET: 745 South 23rd Street
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/479,403
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: PATCH, Andrew J.
; REGISTRATION NUMBER: 32,925
; REFERENCE/DOCKET NUMBER: B2272DIV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-521-2297
; TELEFAX: 703-685-0573
; TELEEX: 248425 EMBON
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1441 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-479-403-18

alignment_scores:
Quality: 8.00 Length: 8
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-805-550-2 x US-08-479-403-18 ..
Align seg 1/1 to: US-08-479-403-18 from: 1 to: 1441

100 AAlaAlaProValAlaProAlaAla 107
|||||
610 GCGGCTCTGCTGCTCGCGCT 633

seq_name: /cgn2_6/ptodata/1/ina/6A_COMB.seq:US-08-835-734-18
seq_documentation_block:
; Sequence 18, Application US/08835734
; Patent No. 6013769
; GENERAL INFORMATION:
; APPLICANT: MANDEL, Jean-Louis
; APPLICANT: AUBOURG, Patrick
; APPLICANT: MOSSER, Jean
; APPLICANT: SARDE, Claude
; TITLE OF INVENTION: X-LINKED ADRENOLEUKODYSTROPHY GENE AND
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Young & Thompson
; STREET: 745 South 23rd Street
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/835,734
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: PATCH, Andrew J.
; REGISTRATION NUMBER: 32,925
; REFERENCE/DOCKET NUMBER: B2272DIV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-521-2297
; TELEFAX: 703-685-0573
; TELEEX: 248425 EMBON
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1441 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-835-734-18

alignment_scores:
Quality: 8.00 Length: 8
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-805-550-2 x US-08-835-734-18 ..
Align seg 1/1 to: US-08-835-734-18 from: 1 to: 1441

100 AAlaAlaProValAlaProAlaAla 107
|||||
610 GCGGCTCTGCTGCTCGCGCT 633

seq_name: /cgn2_6/ptodata/1/ina/6A_COMB.seq:US-08-869-696-8
seq_documentation_block:
; Sequence 8, Application US/08869696C
; Patent No. 6031155
; GENERAL INFORMATION:
; APPLICANT: Cameron-Mills, Verena
; APPLICANT: Lok, Flin
; APPLICANT: Sinjorgo, Catharina Maria Cornelia
; APPLICANT: Van Den Dool, Ronald Tako Marinus
; APPLICANT: Caspers, Martinus Petrus Maria
; APPLICANT: Van Zeijl-Van Der Valk, Maria Joanna
; TITLE OF INVENTION: ARABINOXYLAN DEGRADATION
; REFERENCE: 11225.01US01
; CURRENT APPLICATION NUMBER: US/08/869,696C
; FILING DATE: 1997-06-05
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO: 8
; LENGTH: 1690
; TYPE: DNA
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NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Young & Thompson
STREET: 745 South 23rd Street
CITY: Arlington
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/835,734
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/479,403
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: PATCH, Andrew J.
REGISTRATION NUMBER: 32,925
REFERENCE/DOCKET NUMBER: B2272DIV
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-521-2297
TELEFAX: 703-685-0573
TELEEX: 248425 EMBON
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 1441 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-835-734-18

alignment_scores:
Quality: 8.00 Length: 8
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-805-550-2 x US-08-835-734-18 ..
Align seg 1/1 to: US-08-835-734-18 from: 1 to: 1441

100 AAlaAlaProValAlaProAlaAla 107
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610 GCGGCTCTGCTGCTCGCGCT 633

seq_name: /cgn2_6/ptodata/1/ina/6A_COMB.seq:US-08-869-696-8
seq_documentation_block:
; Sequence 8, Application US/08869696C
; Patent No. 6031155
; GENERAL INFORMATION:
; APPLICANT: Cameron-Mills, Verena
; APPLICANT: Lok, Flin
; APPLICANT: Sinjorgo, Catharina Maria Cornelia
; APPLICANT: Van Den Dool, Ronald Tako Marinus
; APPLICANT: Caspers, Martinus Petrus Maria
; APPLICANT: Van Zeijl-Van Der Valk, Maria Joanna
; TITLE OF INVENTION: ARABINOXYLAN DEGRADATION
; REFERENCE: 11225.01US01
; CURRENT APPLICATION NUMBER: US/08/869,696C
; FILING DATE: 1997-06-05
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO: 8
; LENGTH: 1690
; TYPE: DNA
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ORGANISM: barley  
US-08-869-696-8

alignment\_scores:  
Quality: 8.00 Length: 8  
Ratio: 1.000 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
US-09-805-550-2 x US-08-869-696-8 ..

Align seg 1/1 to: US-08-869-696-8 from: 1 to: 1690

80 SerSerSergIyAlaSerThrAla 87  
|||||  
1364 TCAAGTTCAGGGGCTCTACGCA 1387

